

Application No. 10/015,572
Reply to Office Action of January 2, 2004

- 3 -

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Amended) A source selection system for providing flow of data control in a communication switch for selecting a primary datasource for a data flow selected from a first and second data flow paths, from a plurality of datasources; said system comprising:
- a first and a second communication modules, each communication module providing
 - an internal communication path through a first datasource communicating with a second datasource;
 - a communication link between said first datasource to said second datasource of the other communication module;
 - a validation module associated with said plurality of datasources second datasource adapted to monitor each datasource of said plurality of first datasources of said first and second communication modules for transmission errors in output originating from said each datasource first datasources and adapted to provide information relating to said transmission errors;
 - a source selector associated with said validation module and said plurality of datasources, first datasource of said each communication module, said source selector adapted to select an output datasource from said plurality of first datasources; and
 - an assessment module associated with said validation module adapted to identify said primary datasource from said plurality of first datasources utilizing said information provided by said validation module and adapted

Application No. 10/015,572

Reply to Office Action of January 2, 2004

- 4 -

to cause said source selector to select said output datasource associated with said primary datasource.

2. (Amended) A The source selection system as claimed in claim 1, wherein said validation module comprises a plurality of validation sub-modules, each one of said plurality of validation sub-modules associated with one of said ~~plurality of~~ first datasources.

3. (Amended) A ~~The~~ source selection system as claimed in claim 2, wherein said validation module performs an integrity check on data transmitted by said ~~each~~ datasource first datasources to provide information relating to transmission errors for said ~~each datasource~~ first datasources.

4. (Amended) A The source selection system as claimed in claim 3, wherein said assessment module evaluates severity of said transmission errors provided in said information and causes said source selector to select said output datasource associated with said primary datasource based on said severity of said transmission errors for said ~~each of said plurality of~~ first datasources.

5. (Amended) A The source selection system as claimed in claim 4, wherein said integrity check on said data comprises a parity check and a cyclic redundancy check.

6. (Amended) A The source selection system as claimed in claim 5, wherein said integrity check is performed on a payload portion of said data.

7. (Amended) A The source selection system as claimed in claim 6, wherein said integrity check is performed on a header portion of said data.

McCarthy Tétrault LLP TDO-RJD #8224994 v. 2

Application No. 10/015,572

Reply to Office Action of January 2, 2004

- 5 -

8. (Amended) A The source selection system as claimed in claim 7, wherein said communication switch further comprises a plurality of output cards and an input card, ~~said each one of said plurality of datasources~~ first and second data flow paths originating from one of said plurality of output cards and said source selector operating at input to said input card.

9. (Amended) A The source selection system as claimed in claim 8, wherein at least one of said output cards comprises a component and said integrity check is performed upon said data being received by said component in said at least one of said output cards of said communication switch.

10. (Amended) A The source selection system as claimed in claim 9, wherein said source selector is a multiplexer.

11. (Amended) A method of selecting a primary datasource ~~from a plurality of~~ datasources in a communication switch, said method comprising the steps of:

~~receiving data from each datasource of said plurality of datasources;~~

having first and said second communication paths in said communication switch,
each communication path comprising an internal communication path through a
first datasource communicating with a second datasource;

having a communication link between said first datasource to said second
datasource of the other communication path;

monitoring said each-datasource first datasources of said first and second
communication paths for transmission errors in output originating ~~in output~~ from
said ~~each-datasource~~ first datasources and adapted to provide information relating
to said transmission errors; and

McCarthy Tétrault LLP TDO-RED #8224994 v. 2

Application No. 10/015,572

Reply to Office Action of January 2, 2004

- 6 -

identifying said primary datasource from said ~~plurality of~~ first datasources
utilizing ~~said information relating said transmission errors for said each~~
~~datasource provided by said monitoring said first datasources.~~

12. (Cancelled)

13. (Amended) A ~~The~~ method of selecting a primary datasource as claimed in claim
~~12, 11,~~ further comprising the step of gathering information relating to health of said ~~each~~
~~datasource~~ first datasources.

14. (Amended) A ~~The~~ method of selecting a primary datasource as claimed in claim
13, wherein said ~~monitoring said each datasource for transmission errors~~ first datasources
is executed by performing an integrity check on data originating from said ~~each~~
~~datasource~~ first datasources.

15. (Amended) A ~~The~~ method of selecting a primary datasource as claimed in claim
14, wherein said gathering information relating to said health of said ~~each datasource~~ first
datasources records severity of said transmission errors monitored and said primary
datasource is identified based on said severity of said errors for said ~~each datasource~~ first
datasources.

16. (Amended) A ~~The~~ method of selecting a primary datasource as claimed in claim
15, wherein said integrity check on said data ~~comprise~~ comprises parity checks and cyclic
redundancy checks.

17. (Amended) A ~~The~~ method of selecting a primary datasource as claimed in claim
16, wherein said integrity check is performed on a payload portion of said data.

McCarthy Tetrauli LLP TDO-RED #8224994 v. 2

Application No. 10/015,572

Reply to Office Action of January 2, 2004

- 7 -

18. (Amended) ~~A~~ The method of selecting a primary datasource as claimed in claim
17, wherein said integrity check is performed on a header portion of said data.

* * *